

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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Visit our website - *Click HERE*

Astrodyne TDI
Now you have power.

Isolated and Regulated 15 Watt Modular DC/DC Converters

ST15 series



Unit measures 1"W x 2"L x 0.41"H

- Wide 2 : 1 Input Range
- High Efficiency
- Regulated Outputs
- 1600V Isolation
- Full EMI Shielding
- Standard Pinouts

Model Number	Output Voltage	Output Amps	Input Range
ST15-123.3S	3.3 VDC	4	9-18VDC
ST15-243.3S		4	18-36VDC
ST15-483.3S		4	36-75VDC
ST15-125S	5 VDC	3	9-18VDC
ST15-245S		3	18-36VDC
ST15-485S		3	36-75VDC
ST15-1212S	12 VDC	1.25	9-18VDC
ST15-2412S		1.25	18-36VDC
ST15-4812S		1.25	36-75VDC
ST15-1215S	15 VDC	1	9-18VDC
ST15-2415S		1	18-36VDC
ST15-4815S		1	36-75VDC
ST15-1224S	24 VDC	0.625	9-18VDC
ST15-2424S		0.625	18-36VDC
ST15-4824S		0.625	36-75VDC

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INPUT SPECIFICATIONS

Input Voltage, Nominal	12VDC, 24VDC, 48VDC
Input Voltage Ranges	9-18, 18-36, 36-75 VDC
Input Surge Voltage	50V (12/24V Models), *
	100V (48V Models), *
	10 mS duration, min.
Input Fusing	4A: 12/24Vin Models
	2A: 48Vin Models
Input Filter	PI Type

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart	
Max. Output Power	13.2 Watts 3.3VDC O/P	
	15 Watts all others	
Voltage Accuracy	+/-2%	
Load Regulation	10% - FL	+/-1%
Line Regulation	HL-LL	+/-0.5%
Temperature Coefficient	+/-0.02%/°C	
Ripple	<0.2% Vout + 20mV (Vp-p) max.	
Noise	<0.5% Vout + 50mV (Vp-p) max.	
Overvoltage Protection	Zener Diode Clamp *	
Overcurrent Protection	120% of Rated, Auto Recovery	
Short Circuit Protection	Current Limit, self-recovering	
Efficiency	3.3 Vout = 79%	
	5 Vout = 82%	
	12, 15 & 24 Vout = 83%	

PHYSICAL SPECIFICATIONS

Dimensions	2”x1”x0.413”
Case Material	Nickel Coated Copper
	with Non-Conductive Base
	Connected to O/P Ground
Construction	Fully Encapsulated
Weight	1.1 oz, (30g)

GENERAL SPECIFICATIONS

Input-Out Isolation	1600VDC
Input-Output Resistance	10-9th Ohms
In/Out Capacitance	1000 pF
Switching Frequency	400Khz

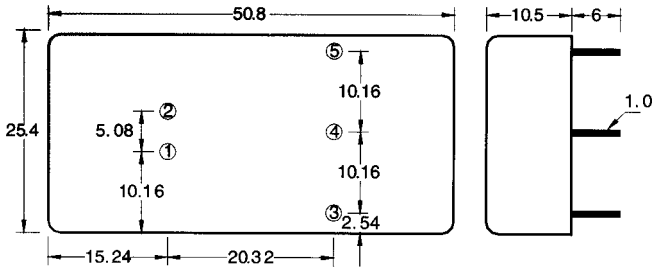
ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-20 to +60°C(See Derate)
Storage Temperature	-55 to +105°C *
Maximum Case Temp	95°C *
Humidity	95%RH *
Cooling	Free Air Convection
MTBF	>800,000 Hrs @ 25°C
	MIL-HDBK-217F
EMI (Conducted & Radiated)	EN 55022 class A

All specifications are typical at nominal input, full load, and 25DegC unless otherwise noted

* These are stress ratings. Exposure of the devices to any of these conditions may adversely affect long term reliability. Proper operation under conditions other than the standard operating conditions is neither warranteed nor implied.

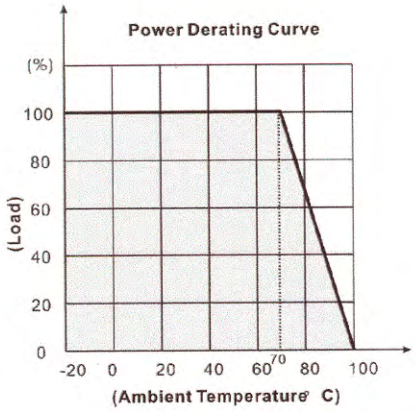
MECHANICAL DIMENSIONS



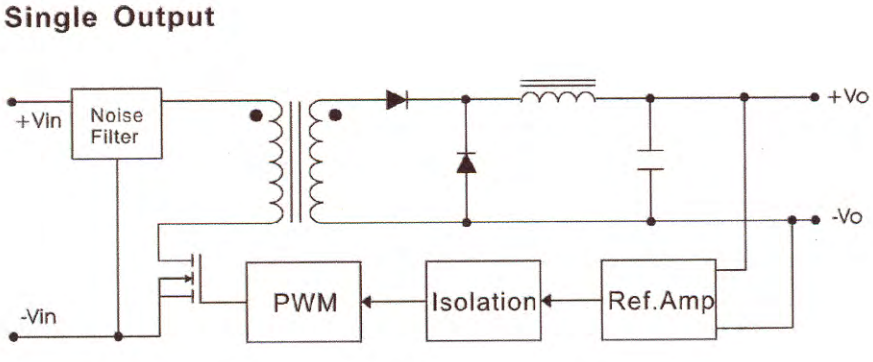
TOP SIDE VIEW

Pin #	Function
1	+ Input
2	- Input
3	+ Output
4	N/A
5	- Output

DERATING



BLOCK DIAGRAM



Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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We're here to make your life easier. How can we help you today?

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